Docket 209333

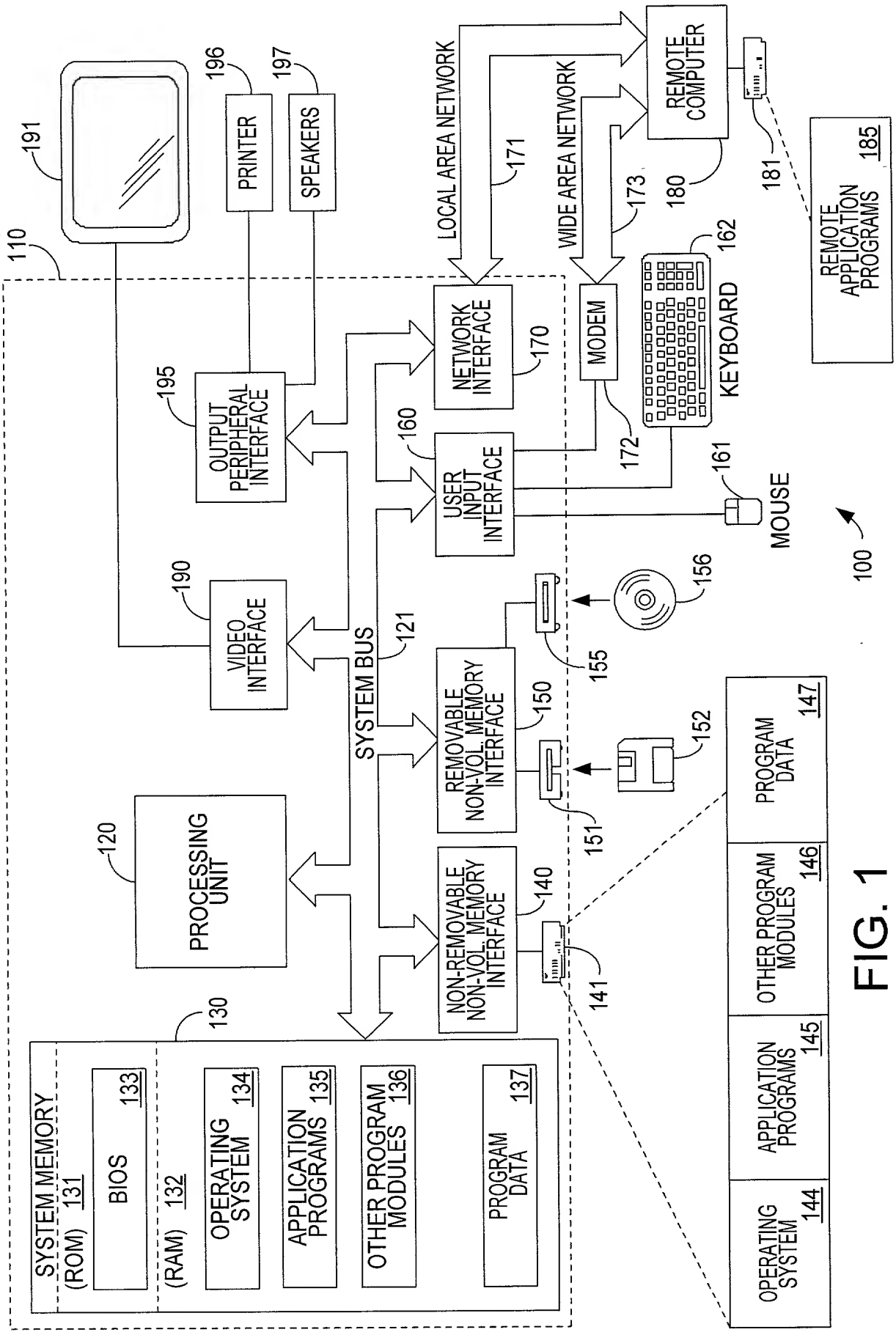

FIG. 1

FIG. 2

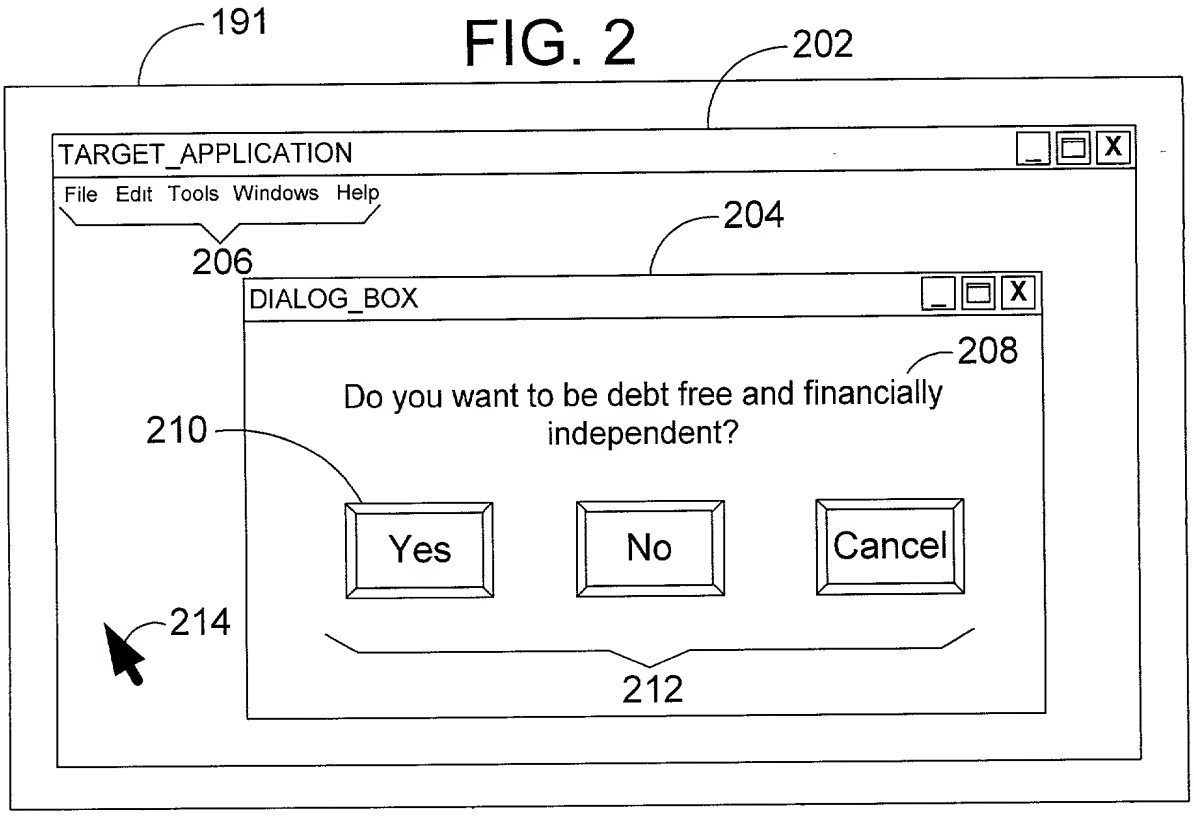

FIG. 3

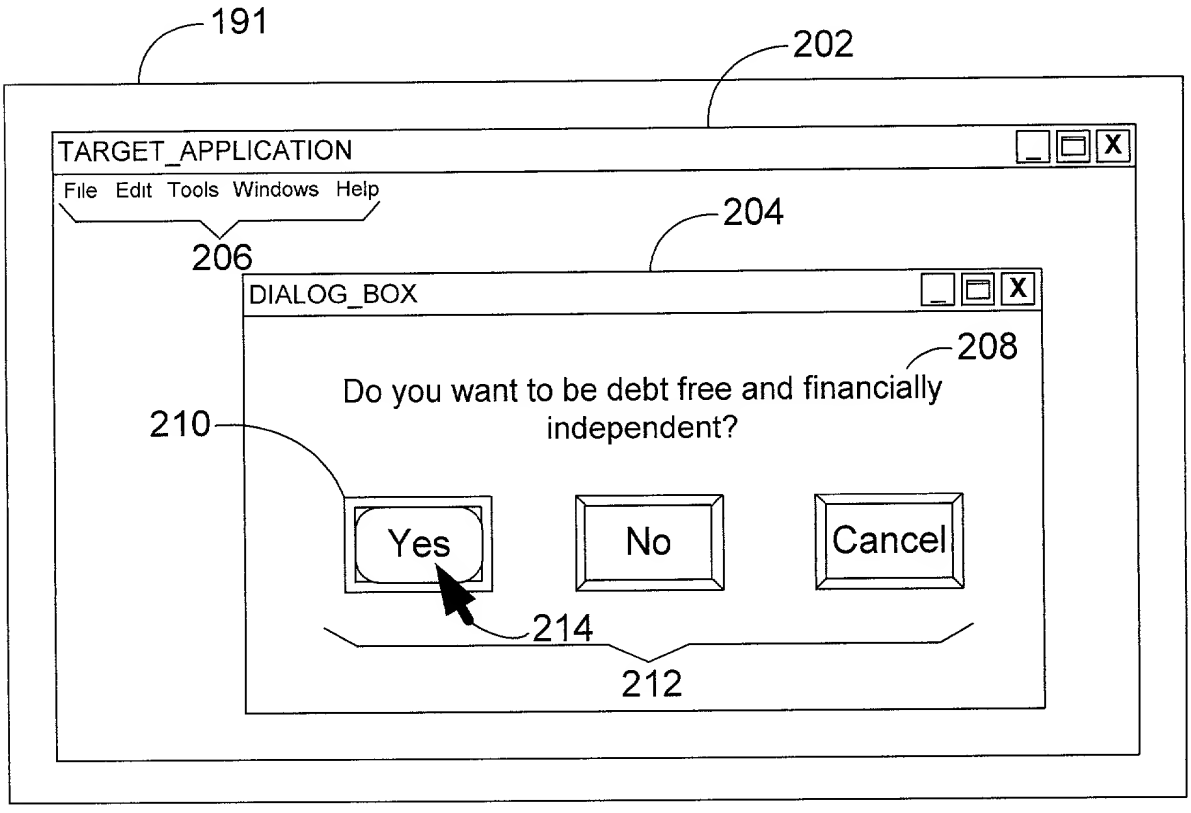

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FIG. 4

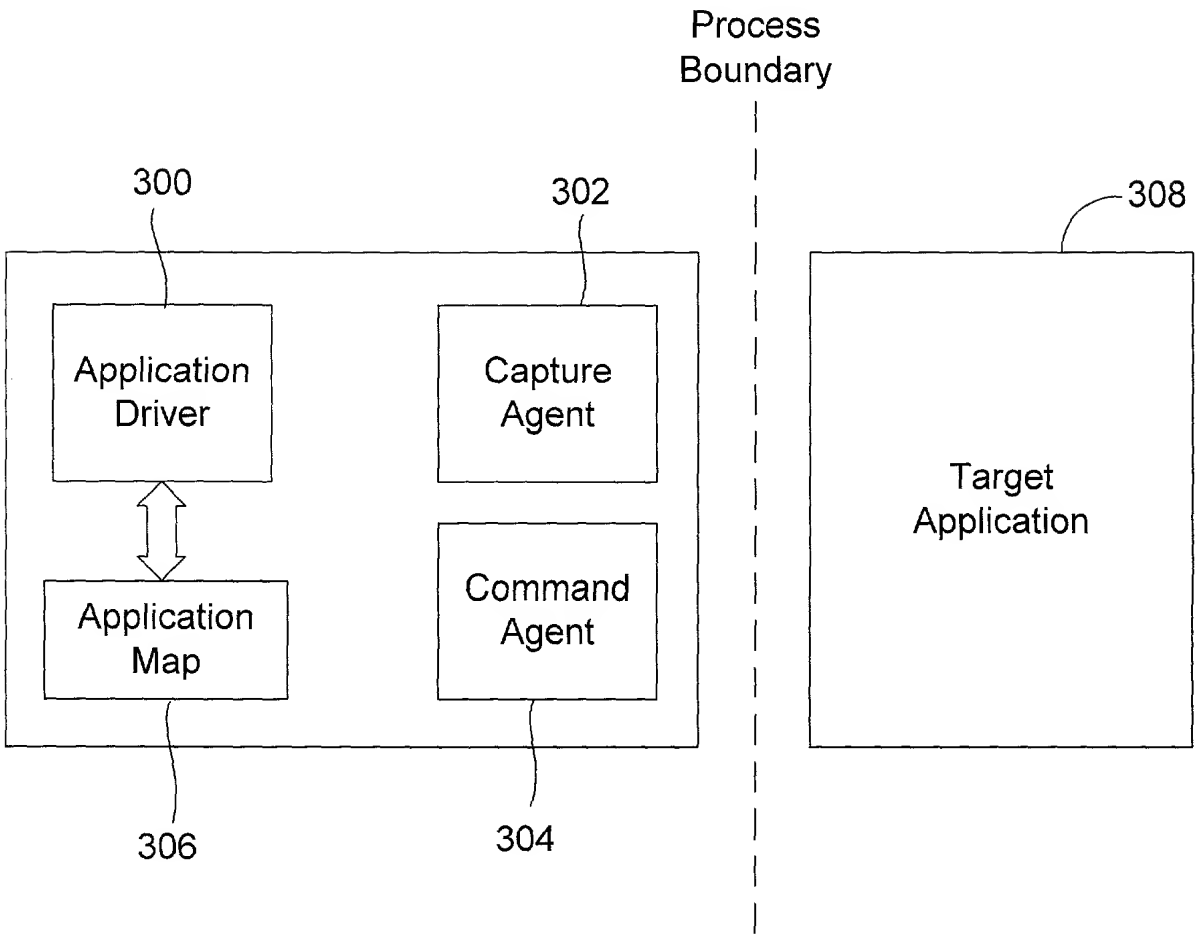
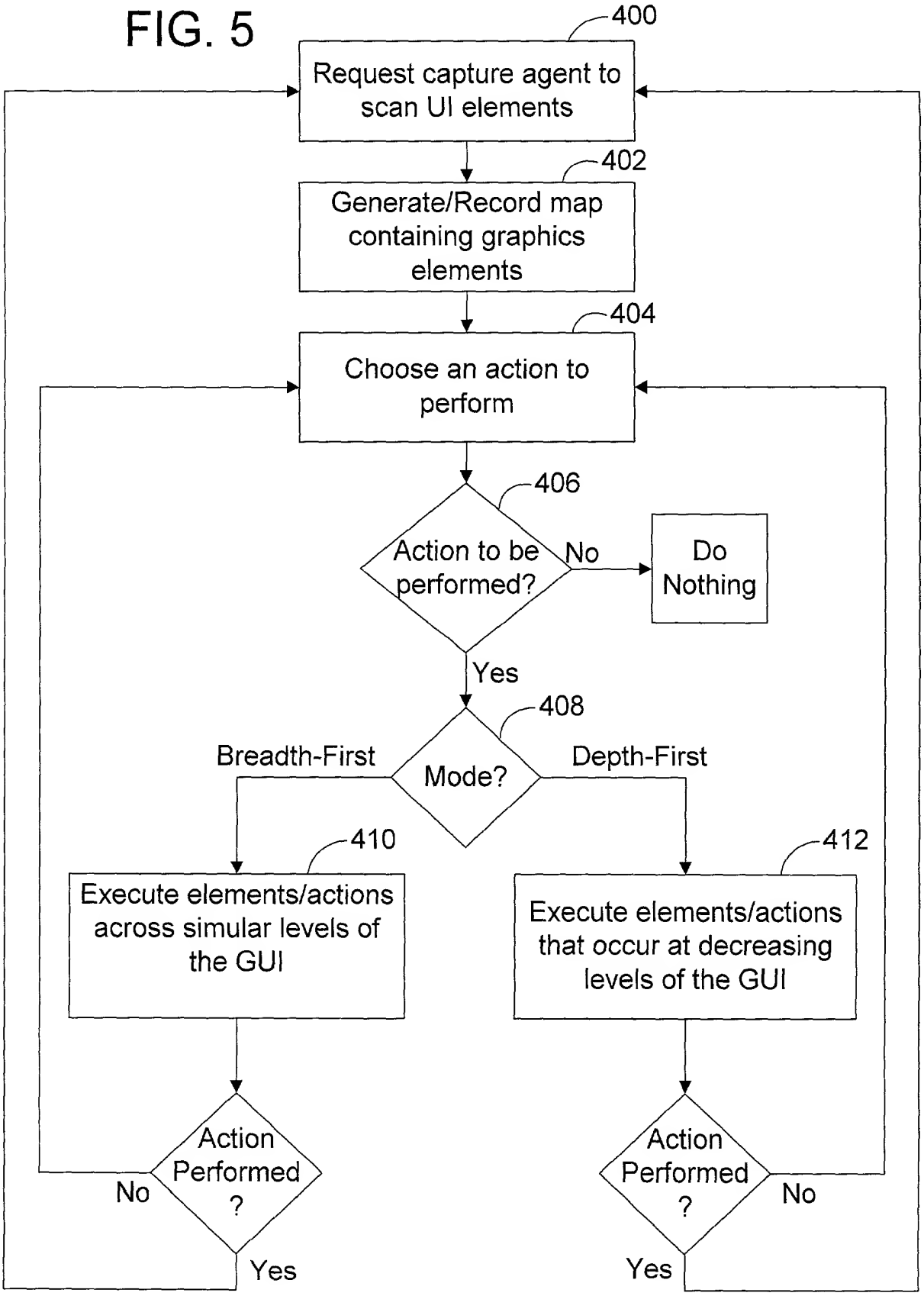

Process
Boundary
300
302
308
Application
Driver
Capture
Agent
Target
Application
Application
Map
Command
Agent
306
304

FIG. 5


400
Request capture agent to scan UI elements
402
Generate/Record map containing graphics elements
404
Choose an action to perform
406
Action to be performed?
No
Do Nothing
Yes
408
Mode?
Breadth-First
Depth-First
410
Execute elements/actions across simular levels of the GUI
412
Execute elements/actions that occur at decreasing levels of the GUI
Action Performed ?
No
Yes
Action Performed ?
No
Yes

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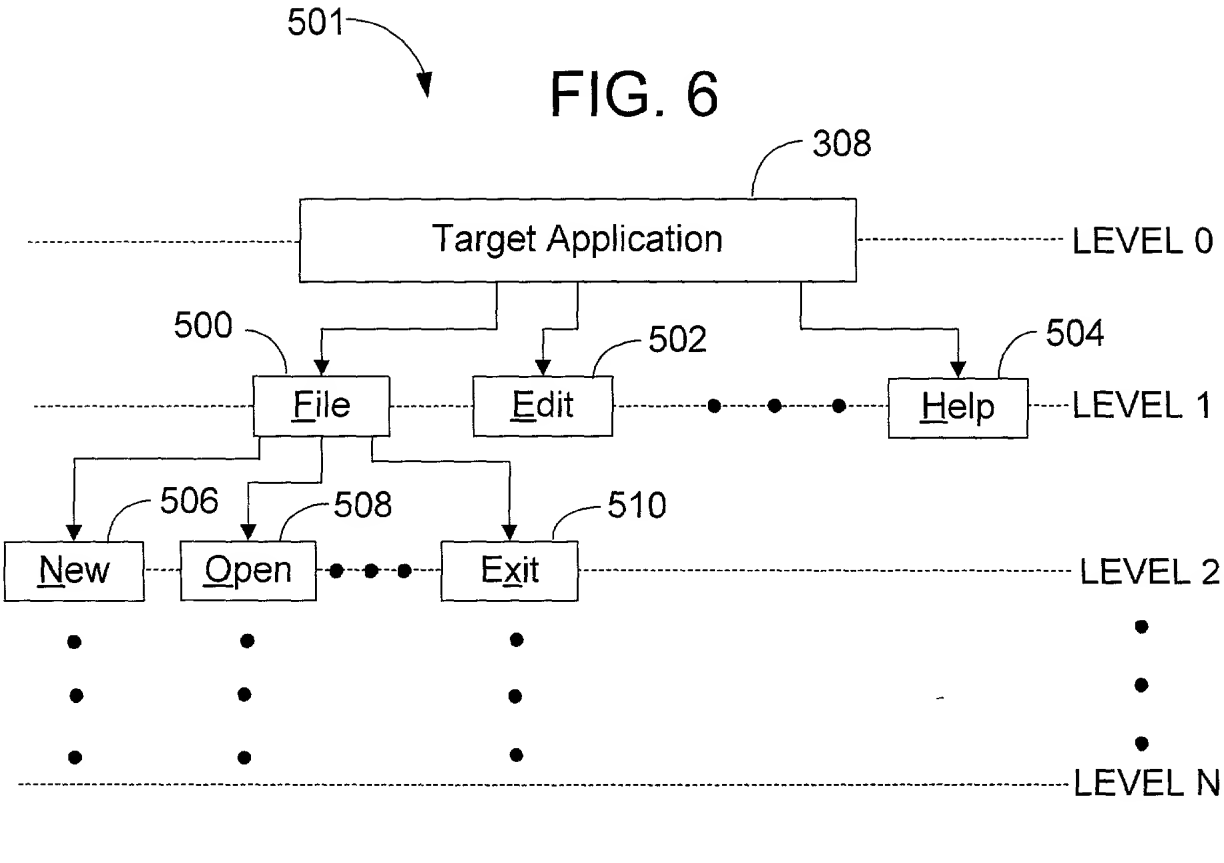

FIG. 6

FIG. 7

```
92  <!ELEMENT element     (element | hwnd | caption | order | resource-id)* >
93  <!ELEMENT hwnd        (#PCDATA) >
94  <!ELEMENT caption     (#PCDATA) >                                  600
95  <!ELEMENT order       (#PCDATA) >
96  <!ELEMENT resource-id (#PCDATA) >                                  602
97
98  <!ELEMENT elements    {element)* >
99
100 <!ELEMENT action      (script-file | client-x | client-y | index | text)* >
101 <!ELEMENT script-file (#PCDATA) >
102 <!ELEMENT client-x    (#PCDATA) >
103 <!ELEMENT client-y    (#PCDATA) >
104 <!ELEMENT index       (#PCDATA) >                                  604
105 <!ELEMENT text        (#PCDATA) >
106
107 <!ELEMENT action-event (elements-before-action,
108                element,
109                action,                                            606
110                elements-after-action)
111 >
112 <!ELEMENT elements-before-action (elements) >
113 <!ELEMENT elements-after-action  (elements) >
114 <!ELEMENT appdriver-complete     EMPTY >
115 <!ELEMENT appdriver-failed      EMPTY >
116
117 <!ELEMENT appdriver-script      (element, action)* >
118
119 <!ELEMENT disable-actions       (element, action)* >
120
121 <!ATTLIST element
122       type          (unknown|main-app-wnd|menu-item|popupmenu|menubar|
123                      dialog|static-text|group-box|edit-box|push-button|
124                      check-box-2state|check-box-3state|radio-button|
125                      list-box-single-select|list-box-extended-select|
126                      list-box-multi-select|list-box-no-select|
127                      combo-box-simple|combo-box-dropdown|
128                      combo-box-dropdownlist|spin|tab-strip|tab|
129                      property-page|list-view-single-select|
130                      list-view-extended-select|tree-view|slider|
131                      scroll-bar|any|check-box|list-box|combo-box|
132                      list-view)
133                      #REQUIRED
134       enabled       (yes|no)              "yes"
135       read-only     (yes|no)              "no"
136       format        (win32|sdm|html|any)      "any"
137 >                                                                 608
138
139 <!ATTLIST action
140       type          (noop|script|cancel|close|click|double-click|
141                      control-click|shift-click|right-click|
142                      check|uncheck|halfcheck|select|
143                      select-one-item|unselect-one-item|
144                      select-additional-item|double-click-item|
145                      right-click-item|edit-set-text|edit-add-text|
146                      edit-paste|edit-cut|spin-down|spin-up|spin-min|
147                      spin-max|slide-down|slide-up|slide-min|slide-max|
148                      scroll-line-down|scroll-line-up|scroll-page-down|
149                      scroll-page-up|scroll-end|scroll-home|any|edit|
150                      spin|slide|scroll)
151                      #REQUIRED
152 >                                                                 610
153
```

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